

Comparisons of Job Characteristics

Focus Occupation: [Electricians \(47-2111\)](#)

Associated Occupation: [Construction and Building Inspectors \(47-4011\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 79

Focus Occupation: Electricians (47-2111)

Associated Occupation: Construction and Building Inspectors (47-4011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Building and Construction	4.0	21.4	14.6	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	15.3	11.8	<<	Extensive education and/or training may be required
Design	5.2	14.0	13.4	0	Current knowledge level may be sufficient
Public Safety and Security	6.9	13.6	7.6	<<	Extensive education and/or training may be required
Mathematics	9.2	13.4	14.5	0	Current knowledge level may be sufficient
Mechanical	6.8	11.8	16.5	>>	Current knowledge level is likely more than sufficient
Physics	4.3	10.1	10.9	0	Current knowledge level may be sufficient
Law and Government	5.9	9.6	4.7	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 14

Focus Occupation: Electricians (47-2111)

Associated Occupation: Construction and Building Inspectors (47-4011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Complex Problem Solving	9.1	10.7	9.6	<	A higher skill level may be required
Quality Control Analysis	5.9	9.0	11.0	>	Skill level is likely sufficient
Systems Evaluation	6.4	8.3	8.1	0	Current skill level may be sufficient
Mathematics	6.2	8.1	9.3	>	Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 72			
Focus Occupation: Electricians (47-2111) Associated Occupation: Construction and Building Inspectors (47-4011)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Expression	12.4	13.6	11.7	<	Some improvement in abilities may be required
Oral Comprehension	12.5	13.5	12.2	<	Some improvement in abilities may be required
Written Comprehension	11.0	12.5	10.3	<	Some improvement in abilities may be required
Problem Sensitivity	11.1	11.9	12.7	0	Current ability level may be sufficient
Near Vision	11.1	11.5	12.3	0	Current ability level may be sufficient
Deductive Reasoning	10.6	11.2	11.2	0	Current ability level may be sufficient
Written Expression	9.8	11.2	8.1	<<	Extensive improvement in abilities may be required
Inductive Reasoning	10.2	11.1	10.6	0	Current ability level may be sufficient
Far Vision	7.8	9.7	10.6	0	Current ability level may be sufficient
Visualization	7.5	9.3	12.2	>>	Current ability level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 70
Focus Occupation: Electricians (47-2111) Associated Occupation: Construction and Building Inspectors (47-4011)		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Conduct training for personnel	30	
Direct and coordinate activities of workers or staff	3	
Inspect electrical installation for code conformance	89	
Maintain records, reports, or files	5	
Perform safety inspections in construction or resource extraction setting	46	
Perform safety inspections in industrial, manufacturing or repair setting	32	
Prepare reports	8	
Read blueprints	10	
Read tape measure	41	
Test electrical/electronic wiring, equipment, systems or fixtures	54	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 81

Focus Occupation: Electricians (47-2111)

Associated Occupation: Construction and Building Inspectors (47-4011)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1
Data management and query software	1
Electrical measuring and testing equipment	7
Finance accounting and enterprise resource planning ERP software	2
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Light and wave generating and measuring equipment	4
Measuring and layout tools	3
Personal communication devices	2
Power tools	2
Pressure measuring and control instruments	10
Surveillance and detection equipment	11
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.